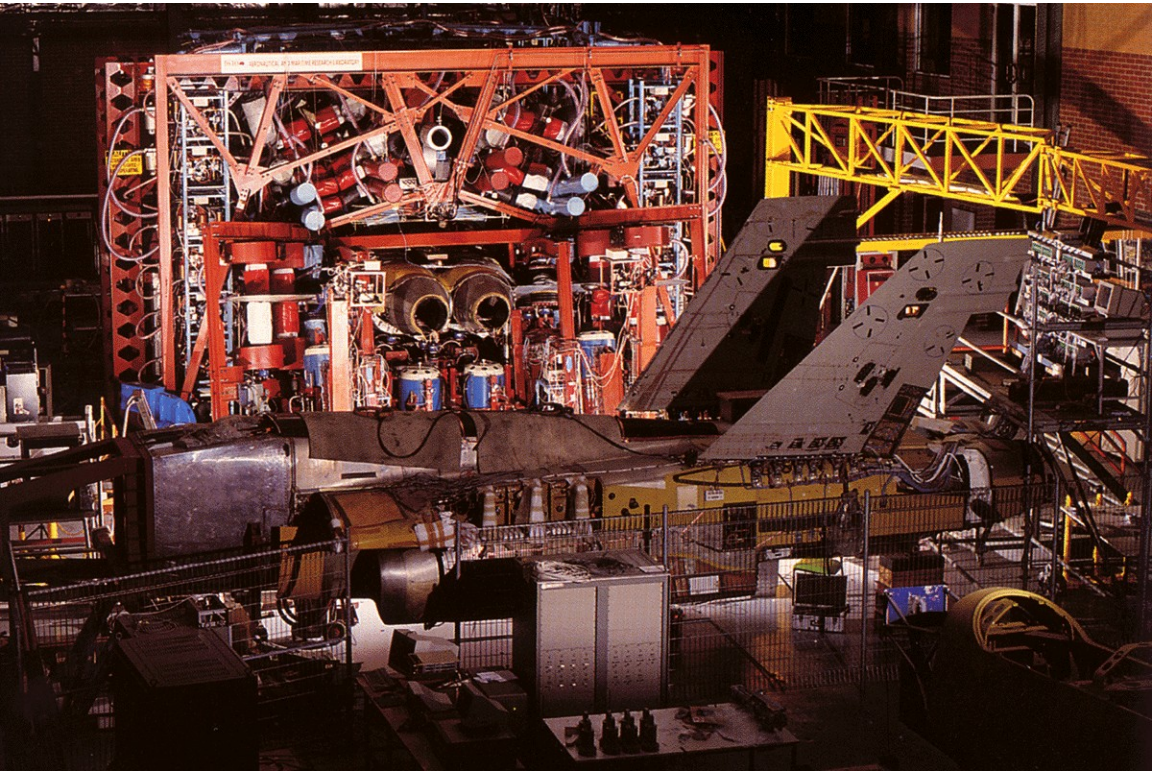
Active Suppression of Buffeting
AER Group



International Follow-On Structural Test Program (IFOSTP) test rig at the Aeronautical and Maritime Research Laboratory (AMRL), Melbourne, Australia. Here it simulates full-scale buffeting vertical tail loads with one F/A-18 (actual test structure STO1) inserted and another (FT46) in foreground.

Program Name: Active Suppression of Buffeting Using Smart Materials

Objective: To demonstrate the application of smart material actuators to suppress vertical stabilizer structural response to buffeting loads.

Payoff:

- Reduced Structural Weight
- Reduced Maintenance/Inspection Costs
- Reduced Life-Cycle Costs
- Increased Aircraft Combat Availability
- Increased Aircraft Service Value

Participants:

Future Activities:

- TTCP AER-TP4 CP4B-2 entitled "Next Generation Active Buffeting Induced Stress Suppression System."
- AFRL-sponsored flight test in FY02

http://www.dtic.mil/

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